



Knoxville Utilities Board

IWTOLD001

July 5, 2011

Mr. Jim Mc Adoo
Permit Section
TDEC – Division of Water Pollution Control
401 Church Street
L & C Annex 6th Floor
Nashville, Tennessee 37243-1534

Dear Mr. McAdoo:

Re: Inter-basin Transfer IWTOLD001

The sums of the maximum daily Inter-basin transfers for July 2010 through June 2011 are:

From TN River Basin to Holston River Basin = 6,603,000 gallons per day
From TN River Basin to French Broad River Basin = 834,000 gallons per day

Reports and spreadsheet showing calculations are enclosed.

If you have any questions, please call Tim Moore at (865) 558-2467, or I can be reached at (865) 558-2746.

Sincerely,

Brooke A. Sinclair
Manager
Safety & Technical Services

BAS/tnm/mrs

Enclosures

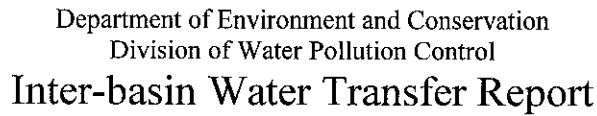
c/encs: File – Safety & Technical Services

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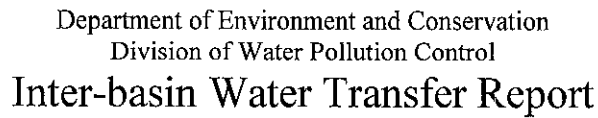
JUL 08 2011

TN Division Of Water
Pollution Control

Date:

[illegible]

Name: Brooke Sinclair Title: Manager, Safety & Technical Services
Signature: *Brooke Sinclair*
Date: 7-5-11



Month/Year	Days	Usage	Gallons	Rolling 90-Day Average Gallons per Day		
June 2011	30		886,000			
May 2011	31		863,000			
April 2011	30		753,000	834,000		
March 2011	31		731,000	782,000		
February 2011	28		743,000	742,000		
January 2011	31		765,000	746,000		
December 2010	31		823,000	777,000		
November 2010	30		770,000	786,000		
October 2010	31		742,000	779,000		
September 2010	30		803,000	772,000		
August 2010	31		785,000	777,000		
July 2010	31		807,000	798,000		
					JUL 08 2011	
					221 Elm St., Worcester, MA 01601-2299	
					For Order Control	

Year	Population
1990	1,000,000
2000	1,200,000
2010	1,500,000
2020	1,800,000

Date: 7-5-11



Department of Environment and Conservation
Division of Water Pollution Control

Inter-basin Water Transfer Report

Withdrawing System: Knoxville Utilities Board MBW Water Treatment Plant
Receiving System: Knoxville Utilities Board Septic Tanks Wooddale Area
Basin of Origin: TN River Mile 649.3
Receiving River Basin: Holston River Mile Basin
County: Knox

Month/Year	Days	Usage	Gallons	Rolling 90-Day Average Gallons per Day		
June 2011	30		2,065,000			
May 2011	31		1,946,000			
April 2011	30		1,662,000	1,891,000		
March 2011	31		1,510,000	1,706,000		
February 2011	28		1,837,000	1,670,000		
January 2011	31		1,922,000	1,756,000		
December 2010	31		1,853,000	1,871,000		
November 2010	30		1,801,000	1,859,000		
October 2010	31		1,913,000	1,856,000		
September 2010	30		2,074,000	1,930,000		
August 2010	31		2,060,000	2,016,000		
July 2010	31		2,073,000	2,069,000		

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TN DIVISION OF
Pollution Control

Maximum Ninety Day Period: 2,069,000*

- Number is a high estimate. Part of flow has already been accounted for in water to Loves Creek WWTP.

Connections: Residential: 100 %

Commercial: _____

Industrial: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated information presented. I certify that there has been no increase in the amount of inter-basin transfer or a timely permit application has been submitted. I am aware there are significant penalties for submitting false information, including the possibility of fines.

Name: Brooke Sinclair Title: Manager, Safety & Technical Services

Signature: BA Sinclair

Date: 7-5-11

<div> <div> From: MBW WTP @ TN River Mile 649.3 To: Loves Creek STP @ Holston River Mile 5.0 LC Monthly Flow (GPD x 10000) </div> <div> Running Quarterly Flow (GPD) </div> </div>									
30	Jun-11	275		30	Jun-11	51		51	
31	May-11	228		31	May-11	47		47	
30	Apr-11	422	308	30	Apr-11	66	546,667	55	26,749,500
31	Mar-11	515	388	31	Mar-11	76	630,000	63	22,589,250
28	Feb-11	226	388	28	Feb-11	53	650,000	63	22,675,500
31	Jan-11	288	343	31	Jan-11	55	613,333	61	20,804,500
30	Dec-10	327	280	31	Dec-10	62	566,667	57	23,712,750
31	Nov-10	270	295	30	Nov-10	59	566,667	59	25,527,000
30	Oct-10	202	266	31	Oct-10	49	566,667	57	23,098,500
31	Sep-10	185	219	30	Sep-10	50	526,667	53	23,017,500
30	Aug-10	168	185	31	Aug-10	46	483,333	48	24,095,250
31	Jul-10	154	169	31	Jul-10	42	460,000	46	24,321,000
Max Quarterly Transfer			3,883,333	Max Quarterly Transfer			650,000	Max Quarterly Transfer	

<div> <div> From: MBW WTP @ TN River Mile 649.3 To: Eastbridge STP @ Holston River Mile 14.2 Eastbridge Monthly Flow (GPD x 10000) </div> <div> Running Quarterly Flow (GPD) </div> </div>									
30	Jun-11	51		51	Jun-11	26,578,500	885,950		833,937
31	May-11	47		47	May-11	26,749,500	862,887		782,443
30	Apr-11	66	546,667	55	Apr-11	22,589,250	752,975		742,484
31	Mar-11	76	630,000	63	Mar-11	22,675,500	731,468		746,469
28	Feb-11	53	650,000	63	Feb-11	20,804,500	743,011		777,130
31	Jan-11	55	613,333	61	Jan-11	23,712,750	764,927		778,634
30	Dec-10	62	566,667	57	Dec-10	25,527,000	823,452		776,741
31	Nov-10	59	566,667	59	Nov-10	23,098,500	769,950		776,741
30	Oct-10	49	566,667	57	Oct-10	23,017,500	742,500		776,741
31	Sep-10	50	526,667	53	Sep-10	24,095,250	803,175		776,741
30	Aug-10	46	483,333	48	Aug-10	24,321,000	784,548		776,741
31	Jul-10	42	460,000	46	Jul-10	25,015,500	806,952		798,225
Max Quarterly Transfer			650,000	Max Quarterly Transfer			806,952	Max Quarterly Transfer	

<div> <div> From: MBW WTP @ TN River Mile 649.3 To: Shady Grove UD in French Broad River Basin Flow GPMonth Flow (GPD) </div> <div> Flow (GPD) </div> </div>									
Monthly	Shady Grove	gpd	gpd	Monthly	Shady Grove	gpd	gpd	Monthly	Shady Grove
Jun-11	938980	2627049	2393254	Jun-11	938980	2627049	2393254	Jun-11	938980
May-11	839980	2332284	22420742	May-11	839980	2332284	22420742	May-11	839980
Apr-11	795590	2364335	2327967	Apr-11	795590	2364335	2327967	Apr-11	795590
Mar-11	769241	2585455	2456950	Mar-11	769241	2585455	2456950	Mar-11	769241
Jan-11	878379	2561134	2415069	Jan-11	878379	2561134	2415069	Jan-11	878379
Dec-10	804986	2561134	2561134	Dec-10	804986	2561134	2561134	Dec-10	804986
Nov-10	830485	2561134	2561134	Nov-10	830485	2561134	2561134	Nov-10	830485
Oct-10	875056	2561134	2561134	Oct-10	875056	2561134	2561134	Oct-10	875056
Sep-10	875056	2561134	2561134	Sep-10	875056	2561134	2561134	Sep-10	875056
Aug-10	875056	2561134	2561134	Aug-10	875056	2561134	2561134	Aug-10	875056
Jul-10	875056	2561134	2561134	Jul-10	875056	2561134	2561134	Jul-10	875056
Max Quarterly Transfer			2,069,254	Max Quarterly Transfer			2,069,254	Max Quarterly Transfer	

DATE	Woodale PS Monthly Flow (GD)	Shady Grove PS (GD)	Shady Grove PS minus SGUD (GD)	Woodale PS minus Shady Grove (GD)	Eastbridge Monthly Flow (GD)	Woodale PS minus Shady Grove PS minus Eastbridge Flow (GD)	Running Quarterly Flow (GD)
Jun-11	2627049	938265	52,315	2,574,734	510,000	2,064,734	1,890,895
May-11	2393284	839980	-22,907	2,416,191	470,000	1,946,191	1,706,041
Apr-11	2364335	795590	42,575	2,321,760	660,000	1,661,760	1,510,171
Mar-11	2327967	789264	57,796	2,270,171	760,000	1,510,171	1,393,712
Feb-11	2420742	796547	53,536	2,367,206	530,000	1,837,206	1,276,473
Jan-11	2585495	878379	113,452	2,472,043	550,000	1,922,043	1,870,803
Dec-10	2456950	807241	-16,211	2,473,161	620,000	1,853,161	1,858,828
Nov-10	2385802	764471	-5,479	2,391,281	590,000	1,801,281	1,913,396
Oct-10	2415069	754173	11,673	2,403,396	490,000	1,913,396	2,016,043
Sep-10	2576314	804986	1,821	2,574,493	500,000	2,074,493	2,069,254
Aug-10	2566176	830485	45,937	2,520,239	460,000	2,060,239	2,069,254
Jul-10	2561134	875056	68,104	2,493,030	420,000	2,073,030	2,069,254
Max Quarterly Transfer							2,069,254

Holston River Basin
 to Septic Tanks and to Loves Creek STP
 minus to Eastbridge STP & SGUD

From TN River Basin to Holston River Basin (gallons per day) =	137	E17	J17	Total
	6,602,587	2,069,254	3,883,333	650,000
From TN River Basin to French Broad River Basin (gallons per day) =	NT7			
	Total			

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